Electrolux DISTRIPARTS ORIGINAL

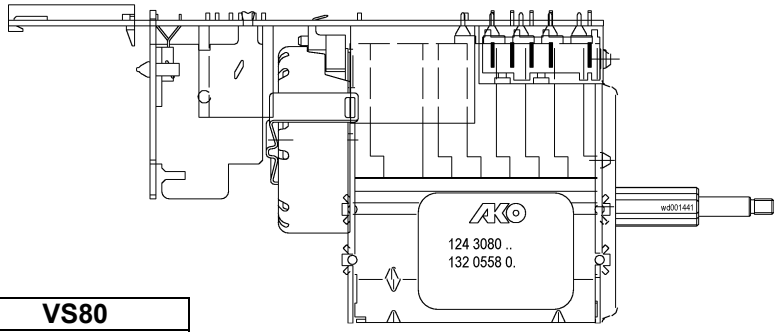
# WASHING

# 2520 - 2530

# SERVICE BULLETIN

## AKO VS70 – VS80 TIMERS - TROUBLESHOOTING

The purpose of this document is to provide a clear and simple description of the steps that the service engineer must take to identify and eliminate the causes of malfunctions on appliances fitted with VS70 and VS80 timers.




| Function | **VS70** | **VS80** |
|---|---|---|
| Timer code | 124 3080 0x | 132 0558 0x |
| Part number | 124 30 80-00/7 | 132 05 58-00/8 |
| Service manual | 599 34 01-27 | 599 34 32-78 |
| Other documents | 599 34 53-88 | 599 34 53-88 |

***Other features of these timers are described below:***

**RAPID ADVANCE IN 90/60°C COTTON CYCLES**

As may be seen from the timer diagrams, starting of these programmes takes place in steps 3-5. When the appliance is switched on, the timer advances rapidly to a position between the starting points for the COTTON 40° and COTTON 60° programmes, during which water fill takes place. The water is heated only in the COTTON 40° programme.

These rapid advance phases, especially in ***fixed-temperature models (i.e. those without temperature regulators***), may be erroneously interpreted as phases of the programme that are skipped. In effect, the operation of the timer is correct since this is a hybrid timer; it is the electronic control system that, after memorizing the selected programme, powers the timer motor for all the phases of the programme.

**AUTOMATIC "1/2 LOAD" FUNCTION IN COTTON CYCLES**

If, during drum rotation in step 15 (VS70) or step 14 (VS80) of the cotton programmes (1, 2, 3 or 4), reset does not occur after the initial 1st level water fill, the timer detects that the wash load is smaller than normal. In this case, the timer advances rapidly to position 17 (VS70) or position 16 (VS80) and does not perform the drain cycle; the number of rinses, therefore, is reduced from 3 to 2,

*N.B. Four rinses are always performed in the COTTON rinse programme (no. 5).*

**RAPID ADVANCE IN 60/50° SYNTHETICS AND 40° WOOL CYCLES**

In these cycles, although less noticeably, the timer behaves in a fashion similar to that of the cotton cycles: at the start of the programme, the timer advances rapidly; then the water fill takes place. The water is heated only in the subsequent programme (synthetics 40°C or delicates 40°C).

**HEATING IN 90/60° COTTON AND 60/50° SYNTHETICS CYCLES**

If a power failure occurs or the user switches off the appliance two or three times while these programmes are being performed (but before the heating phase ends), **the selected programme will take place at a reduced safety temperature of 40°C.**


| EN 2001-05-25 | Publication no. | **599 34 69-91** | Spares & Service documentation - ITZ |
|---|---|---|---|

## SUMMARY OF TEST CYCLES

| Testing the VS70 timer | | | |
|---|---|---|---|
| **Step** | **Step – programme** | **Functions** | **Operations performed** |
| **1** | **23 – FINAL SPIN – COTTON** | Closure of door, (drain pump), motor | Water drain until 1st level pressure switch EMPTY (3 min. timeout) + sequence of 3 spin impulses + final cotton spin (CF – 15 min. timeout); each spin impulse is preceded by a number of low-speed reverse movements |
| **2** | **3 – COTTON 90°C** | (Drain pump), rapid timer advance and water fill to 1st level | Drain pump, after 5 seconds the timer advances rapidly to position 6, where water fills to 1st level without motor movement (hot and cold water for UK version) + 10 minutes normal movement (N) |
| **3** | **49 – DELICATES** | Water fill to 2nd level + heating | Water fill to 1st level (cold) without motor movement, water fill to 2nd level (cold) with delicate (D) motor movement and heating to 40°C max. |
| **4** | **59 – DRAIN** | Drain pump (from full) | Water drain until anti-foam pressure switch is “EMPTY” + 30 sec. drain (3 min. timeout) |

| Testing the VS80 timer | | | |
|---|---|---|---|
| **Step** | **Step – programme** | **Functions** | **Operations performed** |
| **1** | **23 – FINAL SPIN – COTTON** | Closure of door, (drain pump), motor | Water drain until 1st level pressure switch EMPTY (3 min. timeout) + sequence of 3 spin impulses + final cotton spin (CF – 15 min. timeout); each spin impulse is preceded by a number of low-speed reverse movements |
| **2** | **3 - 90°C COTTON** | (Drain pump), rapid timer advance and water fill to 1st level | Drain pump, after 5 seconds the timer advances rapidly to position 8 [in positions 6 (2.5 sec) and 7 (12.5 sec) water is ducted into the pre-wash compartment (cold water in EU versions, mixed water in UK versions)]; in position 8, water fills the wash compartment to 1st level without motor movement (hot water for UK version) + (10 minutes normal movement N) |
| **3** | **49 - DELICATES** | Water fill to 2nd level + heating | (Water fill to 1st level without motor movement), water fill in wash compartment to 2nd level with delicate (D) motor movement and heating to 40°C. |
| **4** | **59 - DRAIN** | Drain pump (from full) | Water drain until 1st level pressure switch is “EMPTY” + 30 sec. drain (3 min. timeout) |
| **5** | **25 – COTTON DRYING** | Drying heater + condensation solenoid + drying timer + fan + (motor and drain) | Drying at full power for the time entered using the drying timer (150 min. timeout) with drying motor movement and drain. |

**Notes**

- Water fill to the prewash compartment is checked in the 1st step (cotton prewash)
- Water fill to the bleach compartment (if any) is checked in position 15 (VS70) or 14 (VS80)
- Water fill to the conditioner compartment is checked in position 21 (VS70) or 20 (VS80)
- Other faults are checked in the respective timer positions.
- Correct operation of the various functions is checked during the respective step: before replacing the timer, check that the button contacts close correctly, check the value of the potentiometers and check the wiring that connects them to the timer
- To check the anti-foam function on the VS70 timer, select an intermediate spin in the cotton rinses (steps 14 – 16 – 20)

## OPERATIONS TO BE PERFORMED DURING THE FIRST PHASE OF THE TESTING CYCLE

| Step | Knob position | → Functional check | → Fault | → Check with machine off | → Component to be repaired/replaced |
|---|---|---|---|---|---|
| 1 | Select the **FINAL COTTON SPIN** programme (step 23) and switch the appliance on | Switching on | The WM does not switch on: the pilot lamp is OFF | Check the continuity of the power cable, the wiring and the suppressor (connectors on filter 1-3, 2-4). If these are OK, check the main switch. | Power cable, wiring, suppressor, main switch |
| | | Start/door closure | The WM does not start: the pilot lamp is ON | Check the closure of the timer contacts: VS70: H3.2-G4.1; VS80:H3.2-G6.1. If these are OK, check the wiring and door lock | Timer.<br>Wiring/Door locking device |
| | | Drain | Drain pump inoperative | Winding / Impeller slippage | Drain pump |
| | | | Drain pump blocked | Foreign bodies / Filter clogged | Clean pump and repeat test |
| | | Motor inversions when empty (no water in tub) | No power to motor | Motor winding interrupted | Motor |
| | | | | Motor brushes (rotor broken) | Motor brushes / Motor |
| | | | | Timer contact / Relay faulty | Timer |
| | | | | Pressure switch contacts faulty | Pressure switch |
| | | | | Wiring | Motor wiring |
| | | | The motor starts at low speed then stops immediately in both directions | Winding of tachimetric generator short-circuited or open | Coil of tachimetric generator |
| | | | Motor does not reverse / rotates in one direction only | Timer faulty (electronic section) | Timer |
| | | | Uncontrolled high-speed start | Timer faulty (electronic section) | Timer |
| | | | Timer advances to STOP | Timer | Timer |

## OPERATIONS TO BE PERFORMED DURING THE SECOND PHASE OF THE TESTING CYCLE

| Step | Knob position | → Functional check | → Fault | → Check with machine off | → Component to be repaired/replaced |
|---|---|---|---|---|---|
| 2 | Select the COTTON 90° PROGRAMME (step no. 3 – heating element not switched on) | Timer advance after a few seconds (8 – 15) | Timer does not advance | Timer or pressure switch blocked on “FULL” 1st level | Timer / 1st level pressure switch |
| | | | | Timer motor blocked/interrupted | Timer |
| | | Water fill to 1st level | Solenoid valve does not fill | Timer contact | Timer |
| | | | | Solenoid interrupted/blocked | Solenoid valve |
| | | | | Wiring to solenoid valve | Wiring / Connectors |
| | | | Fills beyond 1st level | Solenoid valve does not close | Solenoid valve / Wiring |
| | | | | Pressure switch does not switch/leaks | 1st level pressure switch faulty |
| | | | | Tubes / Air chamber blocked or perforated | Check, clean and repeat the test |
| | | Motor inversions when full (with water in tub) | “FULL” consensus signal not received, faulty contacts on pressure switch | Pressure switch does not switch correctly | !st level pressure switch faulty (rarely occurs) |
| | | | Motor does not rotate only with load (i.e. washing in drum) or in impulse mode; when empty, motor rotates correctly | Timer faulty (electronic section) | Timer (rarely occurs) |
| | | | Motor “jerks” when loaded | Tachimetric generator faulty (damaged) | Coil of tachimetric generator |

## OPERATIONS TO BE PERFORMED DURING THE THIRD/FOURTH PHASES OF THE TESTING CYCLE

| Step | Knob position | → Functional check | → Fault | → Check with machine off | → Component to be repaired/replaced |
|---|---|---|---|---|---|
| 3 | Select DELICATES cycle (step 49)<br><br>Select 40°C if the WM features a temperature selector | 2nd level water fill | Solenoid valve does not fill | Timer contact | Timer |
| | | | | Solenoid interrupted/blocked | Solenoid valve |
| | | | | Wiring to solenoid valve | Wiring / Connectors |
| | | | Fills beyond 2nd level | Solenoid valve blocked | Solenoid valve |
| | | | | Pressure switch does not switch/leaks | 2nd level pressure switch faulty |
| | | Heating element switch-on | Heating element does not switch on | Heating element interrupted/earthed | Heating element |
| | | | | Anti-boiling pressure switch faulty | Anti-boiling pressure switch |
| | | | | Check closure of timer contact: **VS70**:G4.3-G4.4; **VS80**:G6.3-G6.4 | Timer |
| | | | The phase is skipped after a few seconds | Check the NTC sensor (25 KΩ approx. at room temperature) | NTC sensor |
| | | | | If the wiring and the NTC sensor are OK, check continuity of wiring and replace the timer | Wiring / Timer |
| | If a temperature regulator is fitted, set to 0°C | Skipping of phase | Timer does not advance | Continuity of wiring to selector | Wiring / Connector |
| | | | | Temperature selector faulty | Selector |
| | If temperature regulator is not featured, wait until the water reaches 40°C | Skipping of phase | Timer does not advance | NTC sensor incorrectly calibrated | NTC temperature sensor |
| | | | | Timer motor blocked | Timer |
| | | | Timer advances before the temperature is reached | NTC sensor incorrectly calibrated | NTC temperature sensor |
| 4 | Then turn to step 49 (DRAIN) | Drain from full | Drain pump inoperative | Winding faulty / Impeller slippage | Drain pump |
| | | | Drain pump blocked | Foreign bodies / Filter clogged | Clean pump/drain filter and repeat the test |
| | | Check for empty tub. 30 seconds after empty is reached, rapid timer advance | Pressure switch does not switch, the timer advances after the maximum time of 3 minutes | Pressure switch closed on “EMPTY” | Pressure switch |
| | | | The timer does not advance | Timer motor blocked / no power supply | Timer |

(washer-dryers only)

## OPERATIONS TO BE PERFORMED DURING THE DRYING PHASE (PHASE 5 OF THE TESTING CYCLE)

**VS80 timers only:**

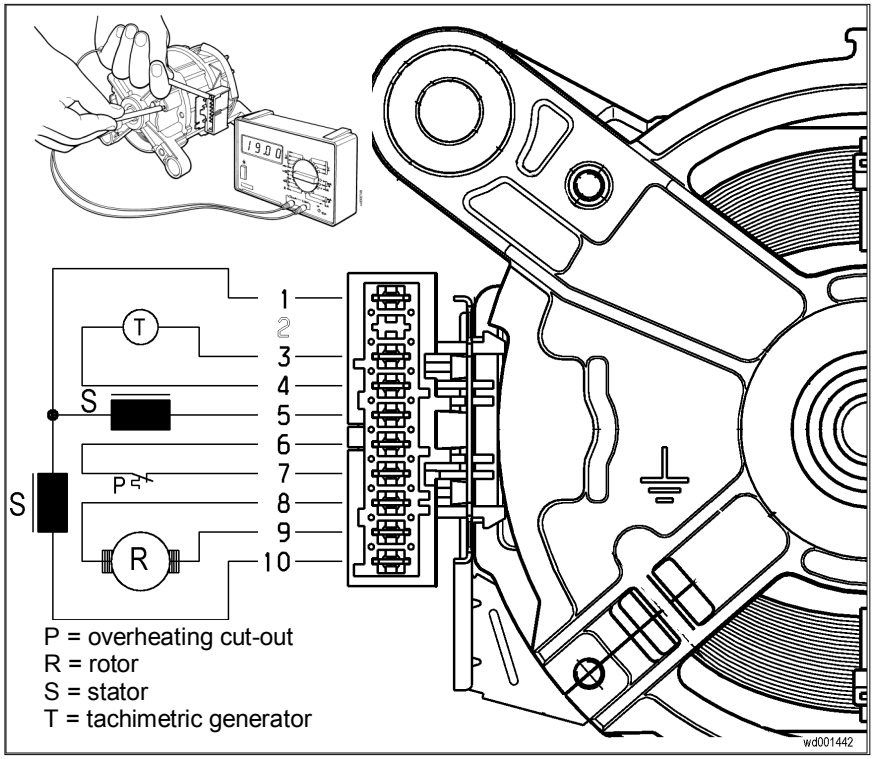
| Step | Knob position | → Functional check | → Fault | → Check with machine off | → Component to be repaired/replaced |
|---|---|---|---|---|---|
| 5 | Select a drying time and select COTTON DRYING (step 49) | Drying | The drying phase is skipped | Drying timer contact faulty | Drying timer |
| | | | | Wiring faulty / interrupted | Wiring |
| | | | The drying heater does not switch on | Thermostats faulty (open) | Thermostats |
| | | | | Heating element interrupted/earthed | Drying heater |
| | | | | Timer contact G6.2-G6.6 does not close correctly | Timer |
| | | | Fan does not switch on | Fan motor winding interrupted or short-circuited; wiring | Fan motor / Wiring |
| | | | | Timer contact N4.4-V7.5 does not close correctly | Timer |
| | | | Does not dry correctly | Condensation solenoid valve faulty (does not load, interrupted) | Condensation solenoid valve |
| | TUrn the drying timer to 0 | Phase skipping and stop | Timer does not advance to stop | Drying timer contact faulty | Drying timer |

## Checking the commutator motor

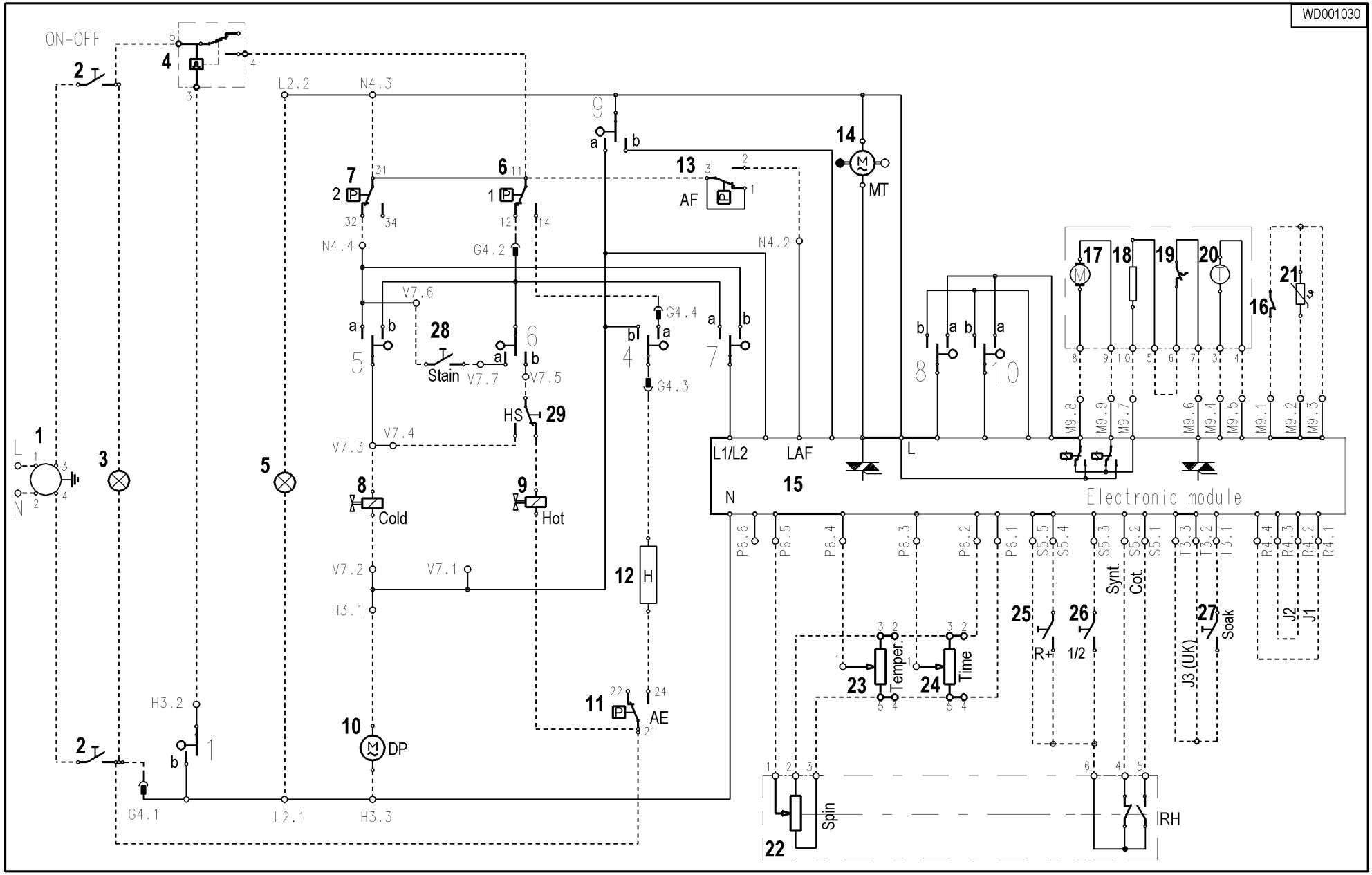
1) Check the connector blocks (wiring) and check for detached or bent terminals.
2) Check for the presence of traces / residue / build-up of water or detergent, and identify the source.
3) Use a tester with a minimum scale of 40 Mohm to check for windings or other components that are connected to mass or poorly earthed (read ∞) across each terminal and the casing.
4) Check that each of the windings is as shown in the table below:

| Motor terminals | Check: | SOLE motor [ Ohms ] | F.H.P. motor [ Ohms ] | CE.SE.T. motor [ Ohms ] |
|---|---|---|---|---|
| **3 ÷ 4** | Winding of tachimetric generator | 171 ÷ 196<br>469 ÷ 540 | 126 ÷ 147 | 64 ÷ 73 |
| **5 ÷ 10** | Stator winding (full range) | 1.0 ÷ 2.2 | 1.0 ÷ 3.0 | 1.0 ÷ 2.0 |
| **6 ÷ 7** | Overheating cut-off | 0 | 0 | 0 |
| **8 ÷ 9** | Rotor winding | 1.5 ÷ 3.0 | 1.5 ÷ 3.0 | 1.5 ÷ 3.0 |
| **1 ÷ 10** | Stator winding (half range, presence of terminal 1) | 0.5 ÷ 1.0 | 0.5 ÷ 1.5 | 0.5 ÷ 1.0 |

N.B.: When checking the rotor winding, the measurement should be taken around the entire perimeter, turning the shaft very slowly and checking for the presence of short-circuits between the visible plates. Check the brushes for wear.



## BASIC CIRCUIT DIAGRAM - VS70 TIMER *(refer to the specific diagram for each model)*



# BASIC CIRCUIT DIAGRAM - VS70 TIMER *(refer to the specific diagram for each model)*

**Other options**

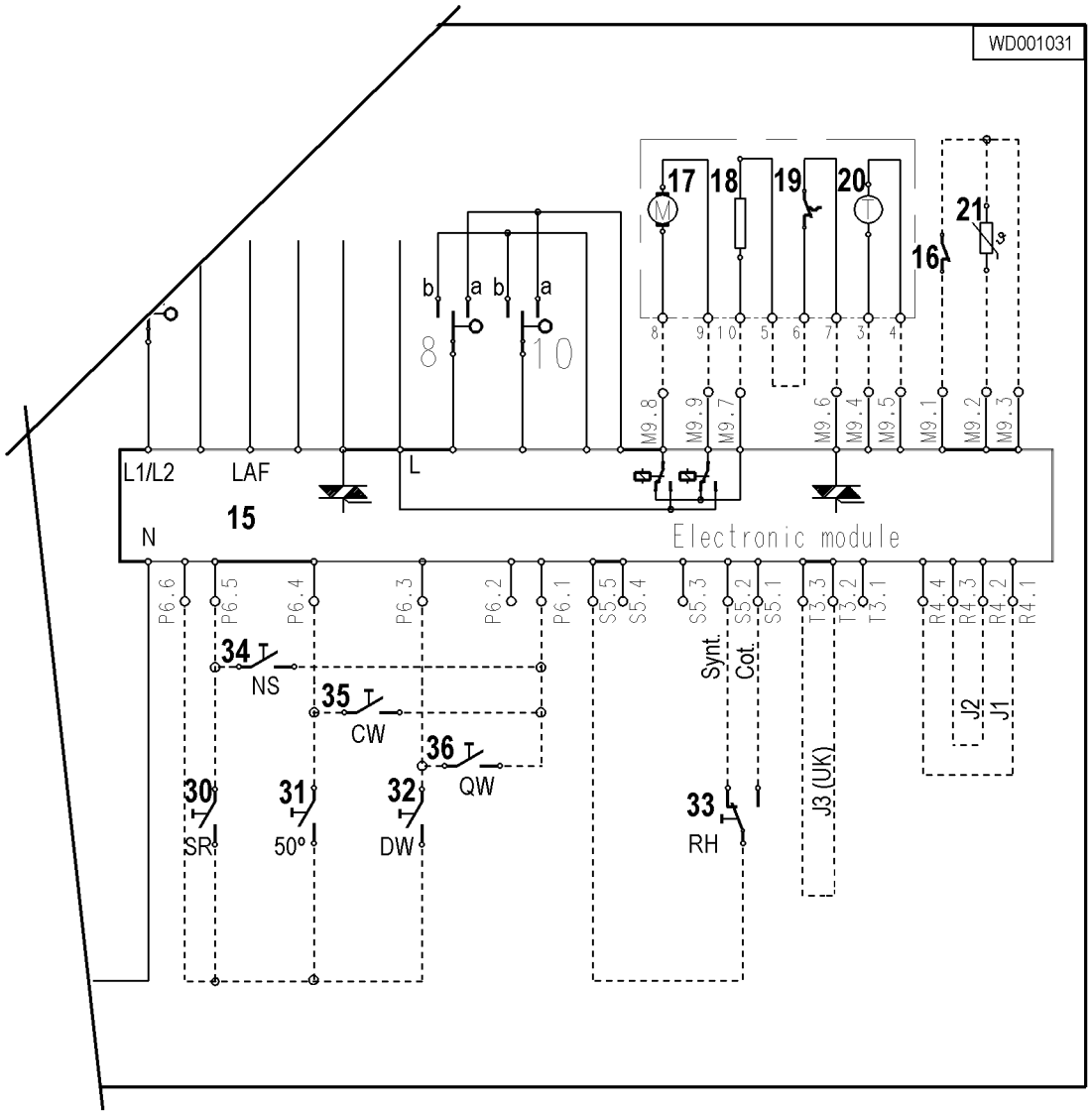
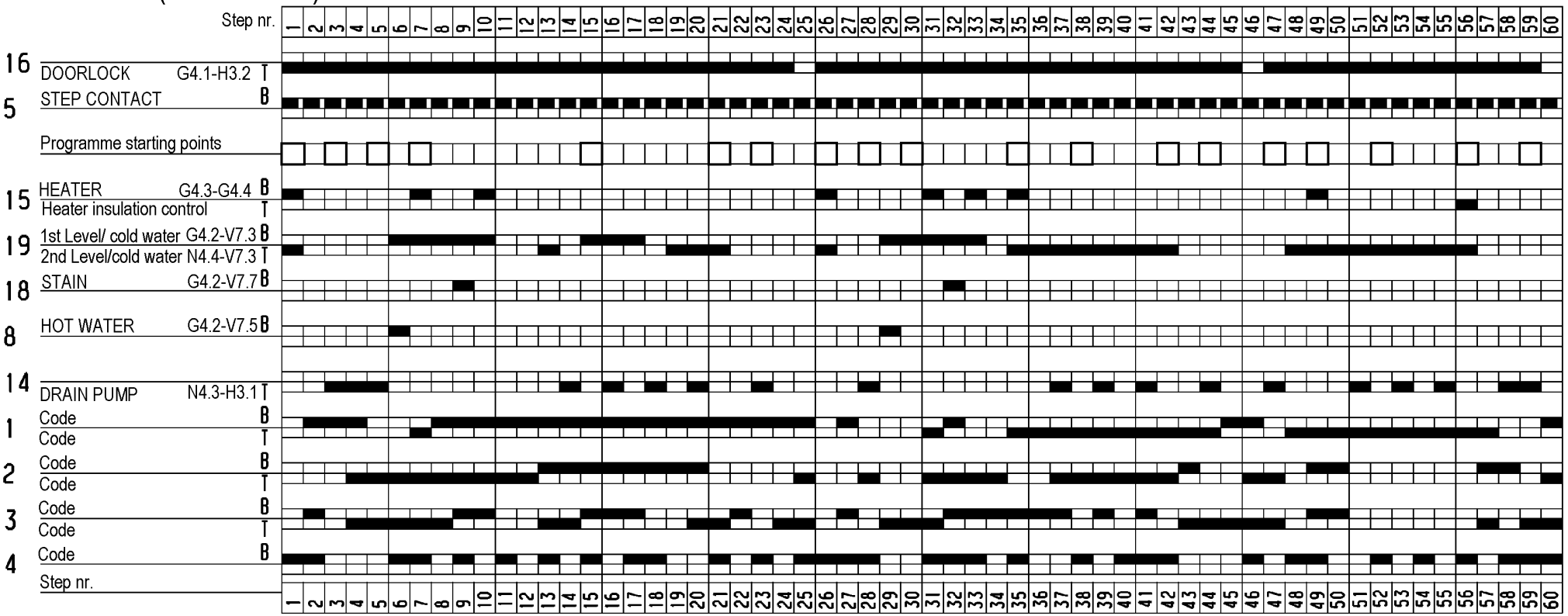



**DIAGRAM LEGEND**

1. Suppressor
2. Start/Stop button
3. Pilot lamp
4. Door delay device
5. Door closure lamp
6. 1st level pressure switch
7. 2nd level pressure switch
8. Cold water solenoid valve
9. Hot water solenoid valve (UK version)
10. Drain pump
11. Anti-boiling pressure switch
12. Heating element
13. Anti-foam pressure switch
14. Timer motor
15. PCB
16. (Drum positioning device for top-loaders)
17. Motor (rotor)
18. Motor (stator)
19. Motor (protection)
20. Motor (tachimetric generator)
21. NTC temperature sensor
22. Spin speed/rinse hold regulator
23. Temperature regulation potentiometer
24. Wash time regulation potentiometer
25. Extra rinse button
26. Half load button
27. Soak button
28. Stains button
29. Heavy soiling button (UK version)
30. Reduced spin button
31. 50° button
32. Daily wash button
33. Rinse hold button
34. Exclude spin button
35. Cold wash button
36. Short cycle button

## CONNECTORS ON VS70 TIMER *(detach all connectors before measuring the contacts)*

### VS71 ELBI (124308101)

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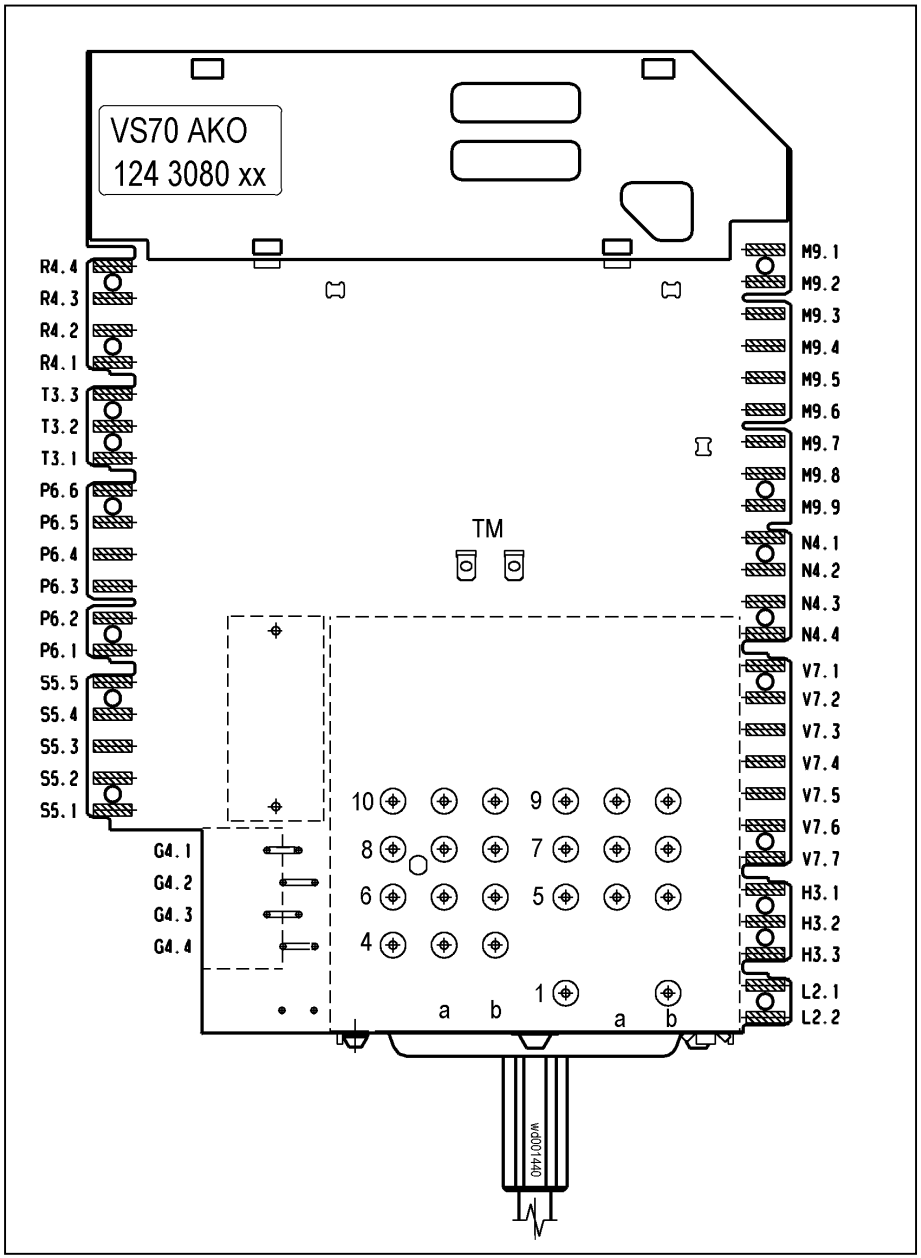
## CONNECTORS ON VS70 TIMER *(detach all connectors before measuring the contacts)*



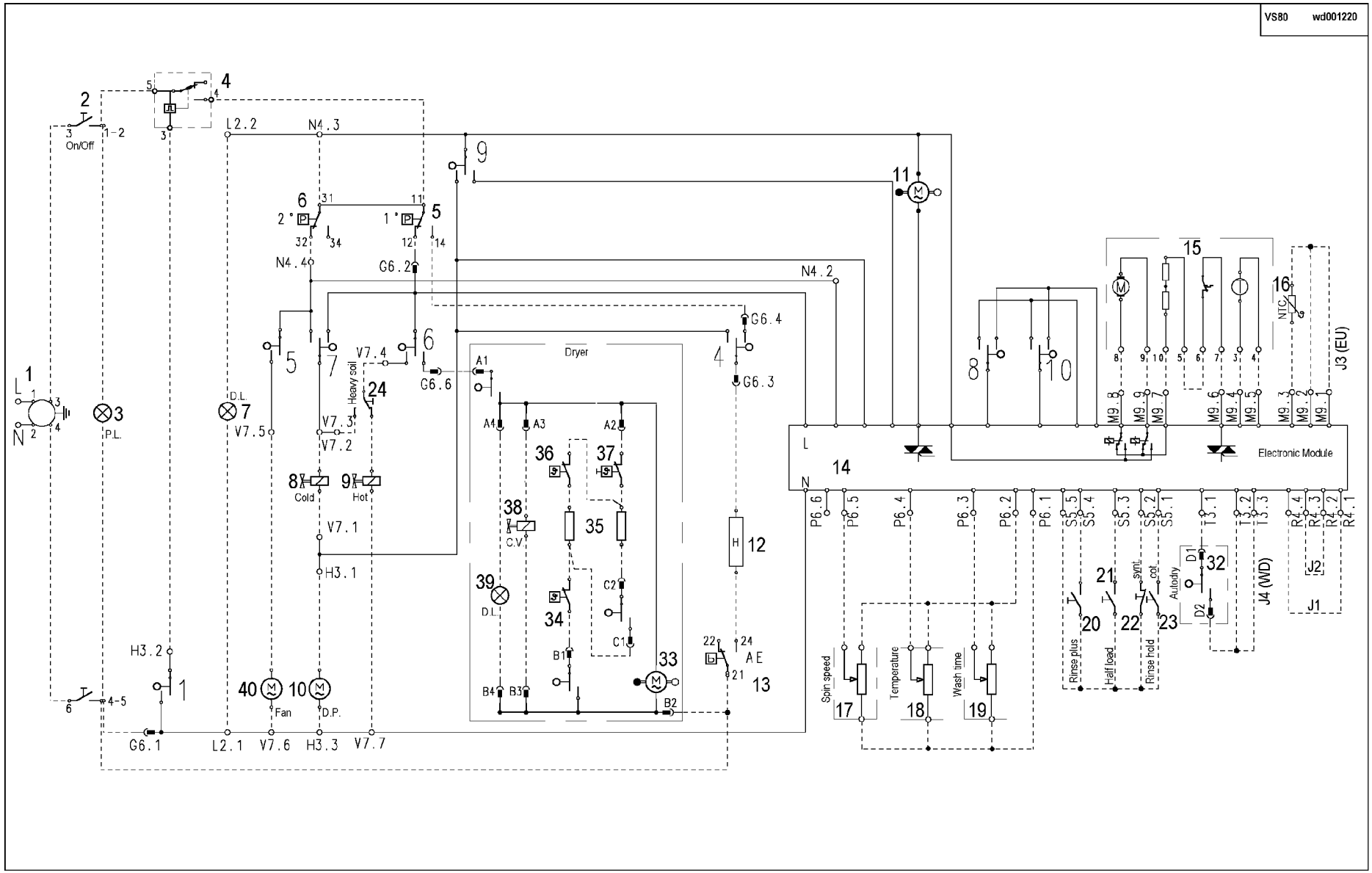

## BURNS ON THE TIMER PCB

In case of burning of the printed circuit of the timer, check that the problem is not caused by another electrical component (short circuits, poor insulation, water leakage etc.). Identify the timer connector that is connected to the burnt-out track and check the wiring that powers the component.

**Problems reported with VS70 timer**

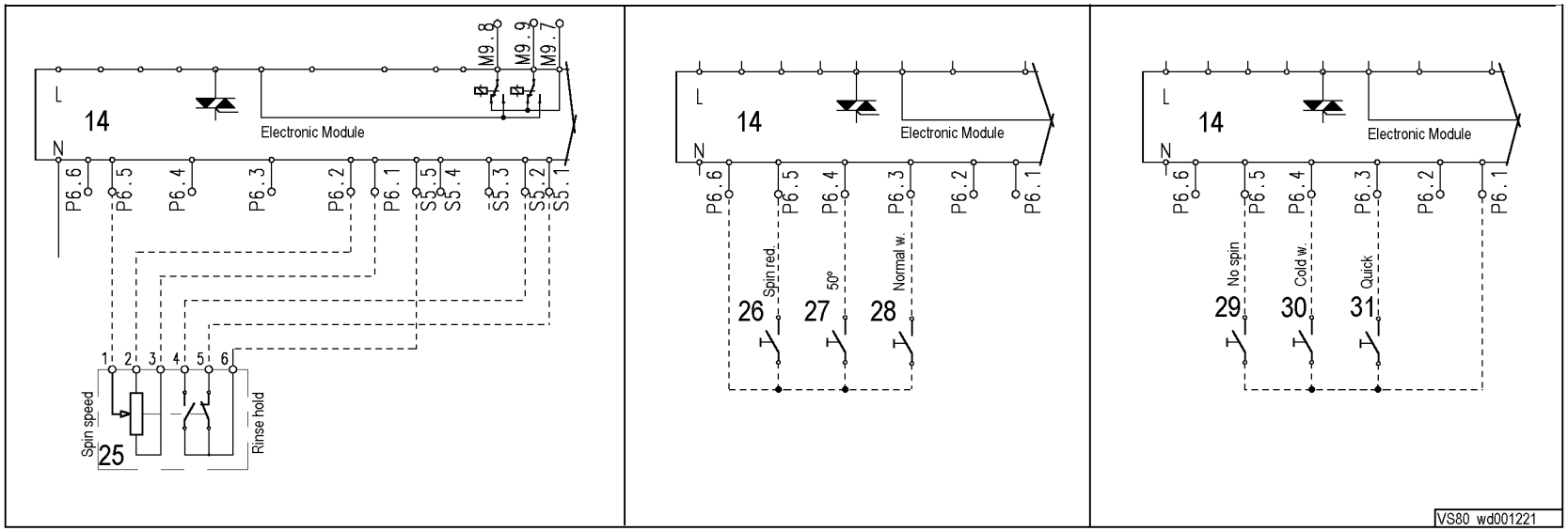
| ***Connector / Track*** | ***Component that caused burning*** |
|---|---|
| L2.1-L2.2 | Pilot lamp wiring |
| H3.1-H3.3 | Drain pump |
| M9.4÷M9.9 | Motor |
| Track between L2.1 and H3.3 | Drain pump |

# BASIC CIRCUIT DIAGRAM – VS80 TIMER *(refer to the specific diagram for each model)*



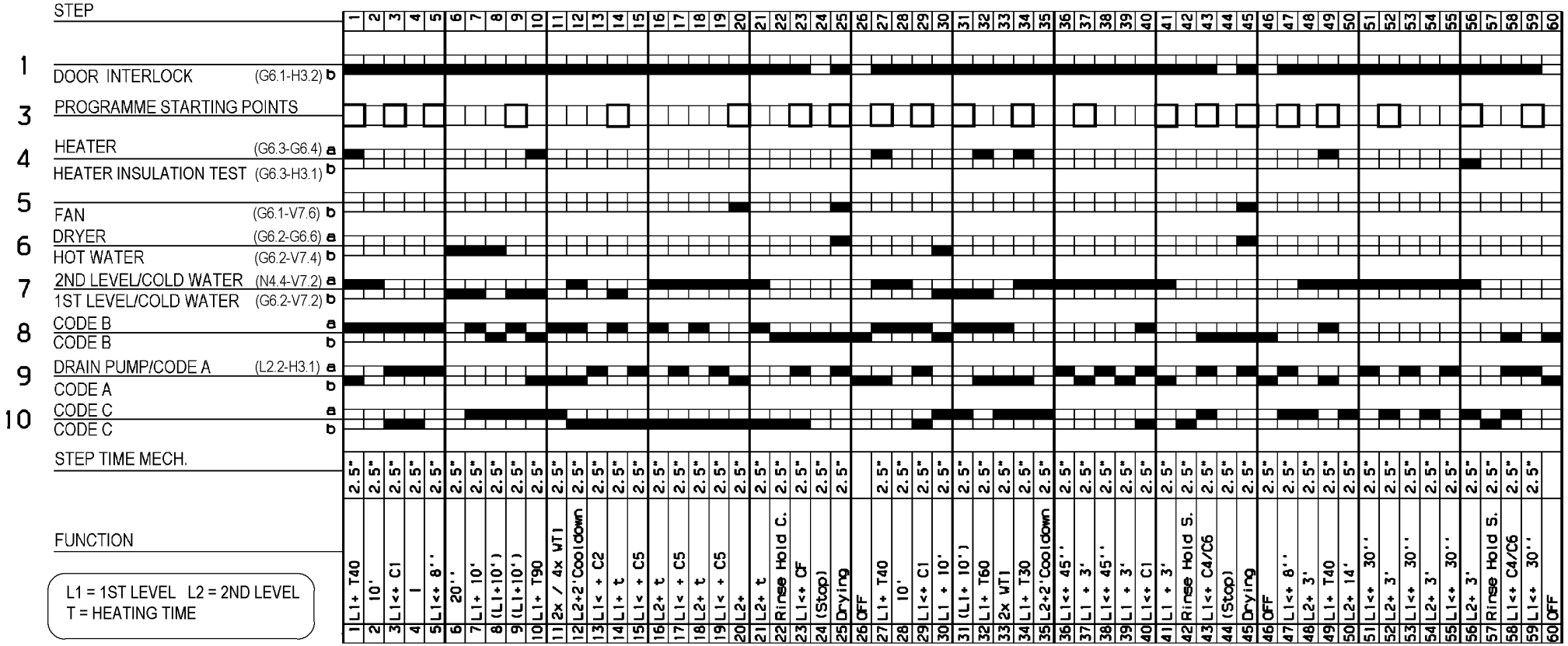
## BASIC CIRCUIT DIAGRAM – VS80 TIMER *(refer to the specific diagram for each model)*

### OTHER OPTIONS




| DIAGRAM LEGEND | | |
|---|---|---|
| **Washing Machines and Washer-Dryers** | | **Washer-Dryers only** |
| 1. Suppressor | 17. Spin speed selector | 32. Automatic drying contact |
| 2. Start/Stop button | 18. Wash temperature selector | 33. Drying timer motor |
| 3. Pilot lamp | 19. Wash time selector | 34. Safety thermostat |
| 4. Door interlock | 20. Extra rinse button | 35. Drying heater |
| 5. 1st level pressure switch | 21. Half Load button | 36. Drying thermostat |
| 6. 2nd level pressure switch | 22. Rinse hold button | 37. Manual-reset thermostat |
| 7. Door closure lamp | 23. Rinse hold button (cotton) | 38. Condensation solenoid valve |
| 8. Cold water solenoid valve | 24. Heavy soiling button | 39. Drying pilot lamp |
| 9. Hot water solenoid valve (UK version) | 25. Spin speed/rinse hold selector | 40. Fan motor |
| 10. Drain pump | 26. Reduced spin button | |
| 11. Timer motor | 27. 50°C button | |
| 12. Heating element | 28. Daily wash button | |
| 13. Anti-boiling pressure switch | 29. Exclude spin button | |
| 14. PCB | 30. Cold wash button | |
| 15. Motor | 31. Short cycle button | |
| 16. NTC temperature sensor | | |

## CONNECTORS ON VS80 TIMER *(detach all connectors before measuring the contacts))*



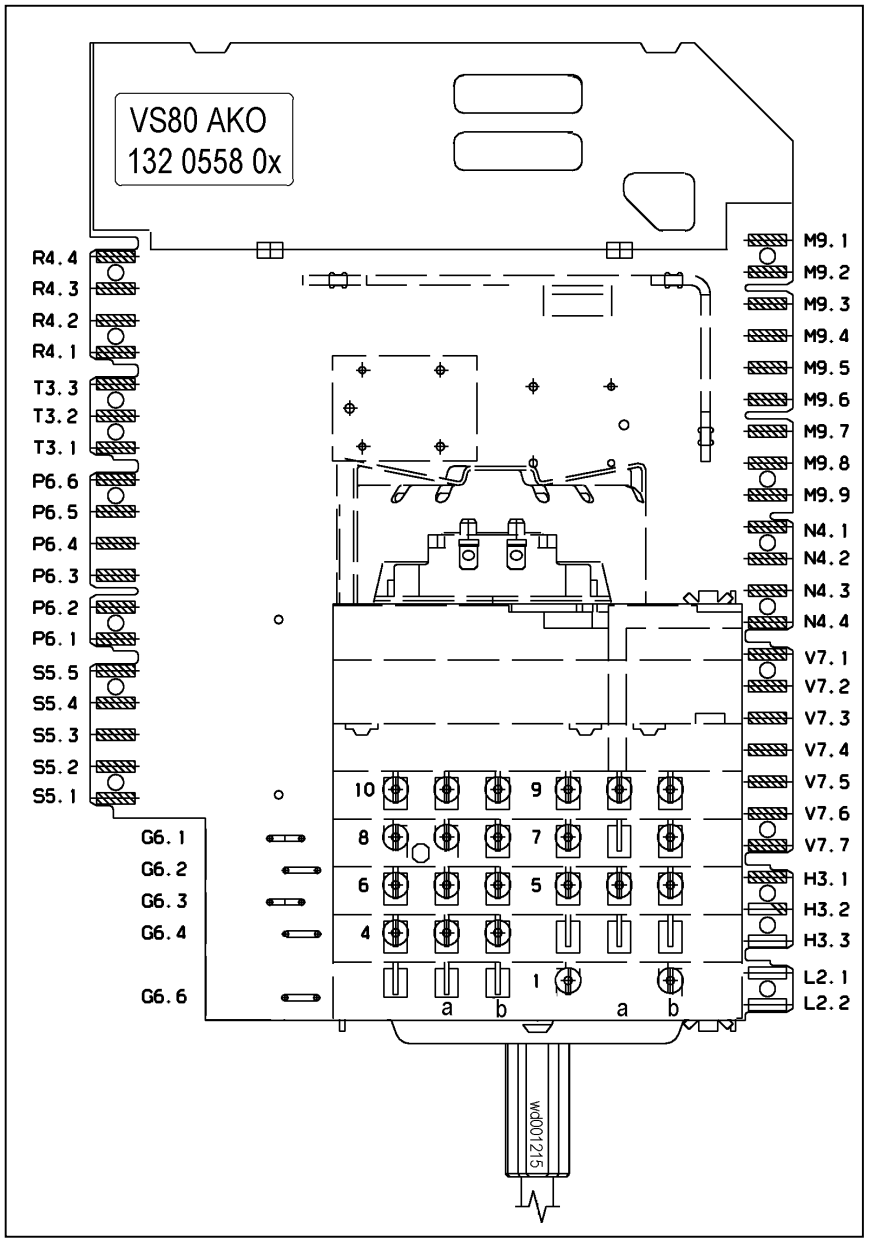
## CONNECTORS ON VS80 TIMER *(detach all connectors before measuring the contacts))*

## BURNS ON THE TIMER PCB

In case of burning of the printed circuit of the timer, check that the problem is not caused by another electrical component (short circuits, poor insulation, water leakage etc.). Identify the timer connector that is connected to the burnt-out track and check the wiring that powers the component.

**Problems reported with VS80 timer**

| ***Connector / Track*** | ***Component that caused burning*** |
|---|---|
| L2.1-L2.2 | Pilot lamp wiring |
| H3.1-H3.3 | Drain pump |
| M9.4÷M9.9 | Motor |
| track between L2.1 ad H3.3 | Drain pump |



## VS70 Timer

| | | |
|---|---|---|
| 91475604300 | QW960 | Husqvarna |
| 91475604500 | PL943C | Zoppas |
| 91475604600 | RL75PV | Zoppas |
| 91475604800 | RTF942 | Rosenlew |
| 91475605000 | EWS965F | Electrolux |
| 91475605001 | EWS965F | Electrolux |
| 91475605100 | LAVAMAT CLARA846 | AEG |
| 91475605500 | PL943C | Zoppas |
| 91475605500 | PL943CR | Zoppas |
| 91475605600 | F902N | Zanussi |
| 91475606100 | PL743CR | Zoppas |
| 91478058900 | FLA1001W | Zanussi |
| 91478059000 | FLA1101W | Zanussi |
| 91478059100 | FLA1201W | Zanussi |
| 91478059200 | 932.169 6/8399 | Privileg |
| 91478059300 | 881.695 1/8427 | Privileg |
| 91478967900 | QW860 | Husqvarna |
| 91478968000 | WA101 | Hansa |
| 91478968100 | WA121 | Hansa |
| 91478969400 | 358.239 2/8382 | Privileg |
| 91478969500 | 744.025 8/8383 | Privileg |
| 91478969600 | 974.124 0/8384 | Privileg |
| 91478970700 | FLS1092 | Zanussi |
| 91478970800 | FLS1292 | Zanussi |
| 91478970900 | 886.116 3/8396 | Privileg |
| 91478971600 | F1005 | Zanussi |
| 91478971700 | F1205 | Zanussi |
| 91478971800 | EW914F | Electrolux |
| 91478972500 | 243.448 8/8437 | Privileg |
| 91478972900 | 715/074-09//1230 | Lloyds |
| 91478973100 | 715/082-09//1150 | Lloyds |
| 91478973200 | 715/085-09//1250 | Lloyds |
| 91478973300 | 715/090-09//1090 | Lloyds |
| 91478973400 | 715/107-09//1290 | Lloyds |
| 91478973500 | FLS1204 | Zanussi |
| 91478974500 | TF1040 | Elektro Helios |
| 91479100300 | EW1270F | Electrolux |
| 91479100301 | EW1270F | Electrolux |
| 91479100302 | EW1270F | Electrolux |
| 91479100303 | EW1270F | Electrolux |
| 91479100500 | RL654CX | Rex |
| 91479100501 | RL654CX | Rex |
| 91479100600 | RL654CXV | Rex |
| 91479100601 | RL654CXV | Rex |
| 91479100700 | RL654CXI | Rex |
| 91479100701 | RL654CXI | Rex |
| 91479100800 | RL75CXI | Rex |
| 91479100801 | RL75CXI | Rex |
| 91479100900 | RL75CVX | Rex |
| 91479100901 | RL75CXV | Rex |
| 91479101000 | RL95CVX | Rex |
| 91479101001 | RL95CXV | Rex |
| 91479101100 | RL95CXI | Rex |
| 91479101101 | RL95CXI | Rex |
| 91479101400 | 631.529 5/8320 | Privileg |
| 91479101500 | 163.557 2/8319 | Privileg |
| 91479101700 | 308.607 1/8336 | Privileg |
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| 91479102000 | RLP654CXV | Rex |
| 91479102001 | RLP654CXV | Rex |
| 91479102100 | RLP75CXI | Rex |
| 91479102101 | RLP75CXI | Rex |
| 91479102200 | RLG654CXV | Rex |
| 91479102201 | RLG654CXV | Rex |
| 91479102300 | RLG75CXV | Rex |
| 91479102301 | RLG75CXV | Rex |
| 91479102400 | RLS654CXV | Rex |
| 91479102401 | RLS654CXV | Rex |
| 91479102500 | CF2066 | Zanker |
| 91479102501 | CF2066 | Zanker |
| 91479102600 | CF2266 | Zanker |
| 91479102601 | CF2266 | Zanker |
| 91479102602 | CF2266 | Zanker |
| 91479102603 | CF2266 | Zanker |
| 91479102700 | BIW1000W | Tricity Bendix |
| 91479102800 | BIW1200W | Tricity Bendix |
| 91479102801 | BIW1200W | Tricity Bendix |
| 91479102802 | BIW1200W | Tricity Bendix |
| 91479102900 | EW1025F | Electrolux |
| 91479103100 | LAVAMAT CLARA855 | AEG |
| 91479103300 | 874.715 6/8418 | Privileg |
| 91479103400 | 278.379 3/8419 | Privileg |
| 91479103500 | 874.505 1/8414 | Privileg |
| 91479103600 | 263.457 4/8412 | Privileg |
| 91479103700 | 252.936 0/8413 | Privileg |
| 91479103900 | TF1230 | Elektro Helios |
| 91483004300 | 571.669 1/8339 | Privileg |
| 91483004400 | 347.557 1/8340 | Privileg |
| 91483004800 | FLD1000 | Zanussi |
| 91483004900 | FLD1200 | Zanussi |
| 91484150000 | AW873F | Arthur Martin Elux |
| 91484150100 | QW1160 | Husqvarna |
| 91484150200 | QW1045 | Husqvarna |
| 91484150300 | PM703B | Zoppas |
| 91484150400 | PM705B | Zoppas |
| 91484150500 | PM903B | Zoppas |
| 91484150501 | PM903B | Zoppas |
| 91484150600 | PMG705B | Zoppas |
| 91484150700 | PMB705SEL | Zoppas |
| 91484150800 | PMB705E | Zoppas |
| 91484150900 | FLN608 | Zanussi |
| 91484151000 | FLN808 | Zanussi |
| 91484151100 | FLN1008 | Zanussi |
| 91484151200 | EW767F | Electrolux |
| 91484151201 | EW767F | Electrolux |
| 91484151300 | EW967F | Electrolux |
| 91484151301 | EW967F | Electrolux |
| 91484151400 | EW1067F | Electrolux |
| 91484151401 | EW1067F | Electrolux |
| 91484151500 | EW757F | Electrolux |
| 91484151600 | EW957F | Electrolux |
| 91484151700 | PM703B | Zoppas |

## Models currently produced at Porcia (Italia)

| | | |
|---|---|---|
| 91484151701 | PM703B | Zoppas |
| 91484151800 | PM705B | Zoppas |
| 91484151801 | PM705B | Zoppas |
| 91484151900 | PM903B | Zoppas |
| 91484151901 | PM903B | Zoppas |
| 91484152000 | PMG705B | Zoppas |
| 91484152001 | PMG705B | Zoppas |
| 91484152100 | PMB705SEL | Zoppas |
| 91484152101 | PMB705SEL | Zoppas |
| 91484152200 | PMB705E | Zoppas |
| 91484152201 | PMB705E | Zoppas |
| 91484152300 | F802V | Zanussi |
| 91484152400 | F1002V | Zanussi |
| 91484152500 | LFV1224 | Faure |
| 91484152700 | 252.994 9/8415 | Privileg |
| 91484152800 | 874.628 1/8416 | Privileg |

| | | |
|---|---|---|
| 91484153000 | F1005 | Zanussi |
| 91484153100 | F1205 | Zanussi |
| 91484153200 | F902 | Zanussi |
| 91484153300 | F1202V | Zanussi |
| 91484153400 | RTF3200 | Rosenlew |
| 91484153500 | CMF CENTURY2000 | Marynen |
| 91484153600 | CMF CENTURY2200 | Marynen |
| 91484153700 | F1002V | Zanussi |
| 91484153800 | F1202V | Zanussi |
| 91484153900 | F1207 | Zanussi |
| 91484154100 | EW1272F | Electrolux |
| 91488001800 | 618.951 8/8338 | Privileg |
| 91488002000 | LZ9616U1 | De Dietrich |
| 91488002100 | LZ9616E1 | De Dietrich |
| 91488002200 | FI1203 | Zanussi |

## VS80 Timer

| | | |
|---|---|---|
| 91460050100 | WDA1055W | Zanussi |
| 91460050200 | WDA1255W | Zanussi |
| 91460050300 | W1002 | Zanussi |
| 91460050400 | 715/212-09//1000WT | Lloyds |
| 91460050500 | 715/228-09//1200WT | Lloyds |
| 91460050600 | 715/228-14//1200WT | Lloyds |
| 91460050800 | W1002 | Zanussi |
| 91460050900 | W1002 | Zanussi |
| 91460051200 | W1002 | Zanussi |
| 91460051300 | WD1003 | Zanussi |
| 91463452600 | W902 | Zanussi |
| 91478970400 | FLA1001W | Zanussi |
| 91478970500 | FLA1101W | Zanussi |
| 91478970600 | FLA1201W | Zanussi |
| 91478974000 | F1005 | Zanussi |
| 91478974100 | F1006 | Zanussi |
| 91478974200 | F1205 | Zanussi |
| 91478974300 | F1206 | Zanussi |